

Title (en)
Extended wear contact lens

Title (de)
Dauertragkontaktlinsen

Title (fr)
Lentille de contact à port prolongé

Publication
EP 2270551 A3 20110323 (EN)

Application
EP 10011206 A 19960322

Priority
• EP 00110269 A 19960322
• EP 96908116 A 19960322
• EP 95810221 A 19950404
• CH 149695 A 19950519
• US 56981695 A 19951208
• EP 10011206 A 19960322

Abstract (en)
[origin: WO9631792A1] An ophthalmic lens is disclosed which is suited for extended-wear periods of at least one day on the eye without a clinically significant amount of corneal swelling and without substantial wearer discomfort. The lens has a balance of oxygen permeability and ion or water permeability, with the ion or water permeability being sufficient to provide good on-eye movement, such that a good tear exchange occurs between the lens and the eye. A preferred lens is a copolymerization product of an oxyperm macromer and an ionoperm monomer. The invention encompasses extended wear contact lenses, which include a core having oxygen transmission and ion transmission pathways extending from the inner surface to the outer surface.

IPC 8 full level
G02B 1/04 (2006.01); **G02C 7/04** (2006.01); **A61F 2/14** (2006.01); **A61L 27/00** (2006.01); **A61L 27/26** (2006.01); **A61L 27/34** (2006.01); **B05D 7/24** (2006.01); **B29C 39/42** (2006.01); **B29D 11/00** (2006.01); **C08F 220/22** (2006.01); **C08F 290/06** (2006.01); **C08F 290/14** (2006.01); **C08F 299/08** (2006.01); **C08G 18/10** (2006.01); **C08G 18/48** (2006.01); **C08G 18/50** (2006.01); **C08G 18/61** (2006.01); **C08G 18/67** (2006.01); **C08G 18/81** (2006.01); **C08G 18/83** (2006.01); **C08G 18/83** (2006.01); **C08G 77/00** (2006.01); **C08G 77/04** (2006.01); **C08G 77/42** (2006.01); **C08G 77/46** (2006.01); **C08J 5/00** (2006.01); **C08K 3/00** (2006.01); **C08L 33/08** (2006.01); **C08L 33/10** (2006.01); **C08L 83/04** (2006.01); **B29C 71/00** (2006.01)

IPC 8 main group level
A61F (2006.01); **C08G** (2006.01); **C08L** (2006.01); **G02C** (2006.01)

CPC (source: EP KR US)
A61L 27/26 (2013.01 - EP US); **A61L 27/34** (2013.01 - EP US); **B05D 1/62** (2013.01 - EP US); **B29C 39/42** (2013.01 - EP US); **B29D 11/00076** (2013.01 - EP US); **C08G 18/10** (2013.01 - EP US); **C08G 18/4833** (2013.01 - EP US); **C08G 18/5015** (2013.01 - EP US); **C08G 18/61** (2013.01 - EP US); **C08G 18/672** (2013.01 - EP US); **C08G 18/8116** (2013.01 - EP US); **C08G 18/8175** (2013.01 - EP US); **G02B 1/04** (2013.01 - KR); **G02B 1/043** (2013.01 - EP US); **G02C 7/049** (2013.01 - US); **A61L 2430/16** (2013.01 - EP US); **B29C 71/00** (2013.01 - EP US); **B29L 2011/0041** (2013.01 - EP US); **Y10S 525/903** (2013.01 - EP US); **Y10S 525/936** (2013.01 - EP US); **Y10S 525/937** (2013.01 - EP US)

C-Set (source: EP US)
1. **G02B 1/043 + C08L 51/085**
2. **G02B 1/043 + C08L 51/08**
3. **A61L 27/26 + C08L 33/00**
4. **A61L 27/26 + C08L 83/04**
5. **A61L 27/34 + C08L 33/00**
6. **A61L 27/34 + C08L 39/06**
7. **C08G 18/10 + C08G 18/61**
8. **C08G 18/10 + C08G 18/63**
9. **C08G 18/10 + C08G 18/48**
10. **C08G 18/672 + C08G 18/48**
11. **C08G 18/672 + C08G 18/61**
12. **C08G 18/8175 + C08G 18/61**
13. **A61L 27/26 + C08L 39/06**

Citation (search report)
• [A] US 5260000 A 19931109 - NANDU MAHENDRA P [US], et al
• [A] EP 0425436 A2 19910502 - CIBA GEIGY AG [CH]
• [A] EP 0295947 A2 19881221 - OCULAR TECHNOLOGIES INC [US]
• [A] EP 0277771 A2 19880810 - BAUSCH & LOMB [US]
• [A] EP 0114894 A1 19840808 - HOYA LENS CORP [JP]
• [A] EP 0108886 A2 19840523 - AMERICAN OPTICAL CORP [US]

Cited by
EP2808707A1; US9695285B2; US9243102B2; US9464159B2; WO2014191316A1; WO2011051690A3; US8937133B2; US9000065B2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated extension state (EPC)
AL LT LV SI

DOCDB simple family (publication)
WO 9631792 A1 19961010; AT E205606 T1 20010915; AT E511113 T1 20110615; AU 2002300702 B2 20051215; AU 2002300702 C1 20110616; AU 2011200428 A1 20110224; AU 2011200428 B2 20111117; AU 3582899 A 19990916; AU 5147896 A 19961023; AU 704749 B2 19990506;

AU 704749 C 20041028; AU 747782 B2 20020523; BR 9604842 A 19980616; CA 2215118 A1 19961010; CA 2215118 C 20110426; CN 1180416 A 19980429; CN 1192251 C 20050309; CO 4870717 A1 19991227; CZ 295931 B6 20051214; CZ 312297 A3 19980318; DE 69615168 D1 20011018; DE 69615168 T2 20020516; DK 0819258 T3 20020121; DK 1043605 T3 20110627; DK 2270550 T3 20121022; DK 2270551 T3 20120910; DK 2270552 T3 20120910; EA 001397 B1 20010226; EA 199700292 A1 19980430; EE 04921 B1 20071015; EE 9700236 A 19980415; EP 0819258 A1 19980121; EP 0819258 B1 20010912; EP 1043605 A1 20001011; EP 1043605 B1 20110525; EP 2270550 A2 20110105; EP 2270550 A3 20110323; EP 2270550 B1 20120822; EP 2270551 A2 20110105; EP 2270551 A3 20110323; EP 2270551 B1 20120704; EP 2270552 A2 20110105; EP 2270552 A3 20110406; EP 2270552 B1 20120704; ES 2166882 T3 20020501; ES 2362713 T3 20110712; ES 2387351 T3 20120920; ES 2388904 T3 20121019; ES 2391717 T3 20121129; HK 1151355 A1 20120127; HK 1151356 A1 20120127; HK 1151357 A1 20120127; HR P960144 A2 19971031; HR P960144 B1 20030831; HU 223493 B1 20040728; HU P9801125 A2 19981228; HU P9801125 A3 19991228; IL 117701 A0 19960723; IL 117701 A 20010614; JP 2009003449 A 20090108; JP 2010020330 A 20100128; JP 2011141558 A 20110721; JP 4216332 B2 20090128; JP 4751421 B2 20110817; JP H11502949 A 19990309; KR 100423467 B1 20040804; KR 19980703678 A 19981205; MX 9707553 A 19971231; MY 114914 A 20030228; NO 20084598 L 19971118; NO 327093 B1 20090420; NO 974585 D0 19971003; NO 974585 L 19971118; NZ 304321 A 19990629; PE 36797 A1 19970926; PL 188618 B1 20050331; PL 322642 A1 19980216; PT 1043605 E 20110601; PT 819258 E 20020328; SI 1043605 T1 20110729; SK 133697 A3 19981202; SK 285465 B6 20070201; TW 464660 B 20011121; US 2009039535 A1 20090212; US 2014022507 A1 20140123; US 5760100 A 19980602; US 5760100 B1 20001114; US 5849811 A 19981215; US 5849811 B1 20001114; US 5965631 A 19991012; US 6951894 B1 20051004; US 8568626 B2 20131029; US 9612455 B2 20170404; ZA 962656 B 19961004

DOCDB simple family (application)

EP 9601265 W 19960322; AT 00110269 T 19960322; AT 96908116 T 19960322; AU 2002300702 A 20020821; AU 2011200428 A 20110201; AU 3582899 A 19990622; AU 5147896 A 19960322; BR 9604842 A 19960322; CA 2215118 A 19960322; CN 96193004 A 19960322; CO 96016240 A 19960402; CZ 312297 A 19960322; DE 69615168 T 19960322; DK 00110269 T 19960322; DK 10011206 T 19960322; DK 10011815 T 19960322; DK 11205196 T 19960322; DK 96908116 T 19960322; EA 199700292 A 19960322; EE 9700236 A 19960322; EP 00110269 A 19960322; EP 10011205 A 19960322; EP 10011206 A 19960322; EP 10011815 A 19960322; EP 96908116 A 19960322; ES 00110269 T 19960322; ES 10011205 T 19960322; ES 10011206 T 19960322; ES 10011815 T 19960322; ES 96908116 T 19960322; HK 11105286 A 20110527; HK 11105287 A 20110527; HK 11105289 A 20110527; HR P960144 A 19960328; HU P9801125 A 19960322; IL 11770196 A 19960328; JP 2008152780 A 20080611; JP 2009191836 A 20090821; JP 2011030444 A 20110216; JP 52993196 A 19960322; KR 19970707077 A 19971004; MX 9707553 A 19960322; MY PI9601140 A 19960326; NO 20084598 A 20081030; NO 974585 A 19971003; NZ 30432196 A 19960322; PE 00023696 A 19960402; PL 32264296 A 19960322; PT 00110269 T 19960322; PT 96908116 T 19960322; SI 9630776 T 19960322; SK 133697 A 19960322; TW 85103599 A 19960326; US 10871498 A 19980701; US 201314033986 A 20130923; US 25240608 A 20081016; US 56981695 A 19951208; US 64052600 A 20000817; US 68245296 A 19960717; ZA 962656 A 19960403